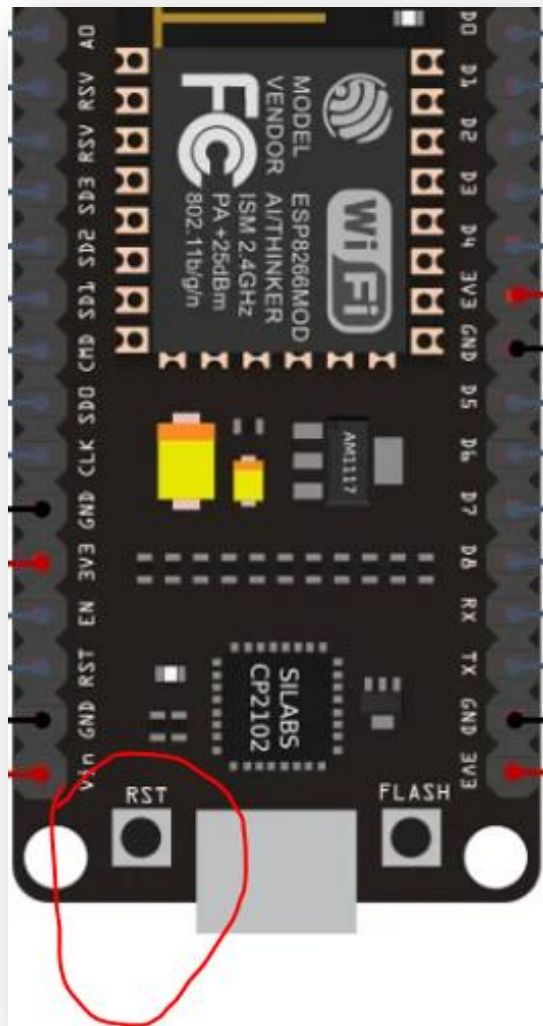


# Step 2

## WIFI Network Registration

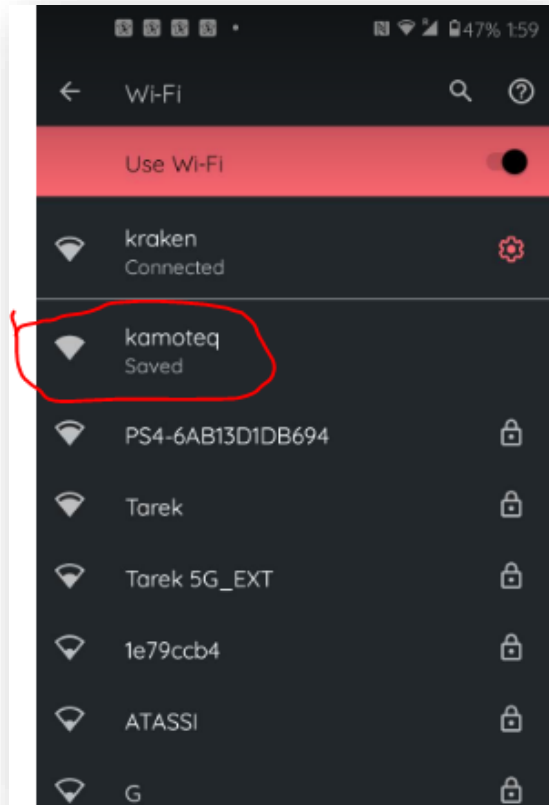
Registering the WIFI Network

1. Reset your device



2. Get your laptop or smartphone or tablet or anything that can connect to a WIFI network and has an internet browser like google chrome browser

3. Open the WIFI and find and connect to the “kamoteq” hotspot and verify that you successfully connected to the “kamoteq” network



4. Open the Google Chrome browser and enter <http://192.168.4.1> and a registration page will load, In the registration form, enter your HOME WIFI network SSID, PASSWORD, and the new DEVICE NAME for your ESP device

**Note.** Please make sure the password has no extra white spaces at the end.

WIFI REGISTRATION

SSID

kraken

PASS

~~XXXXXXXXXX~~

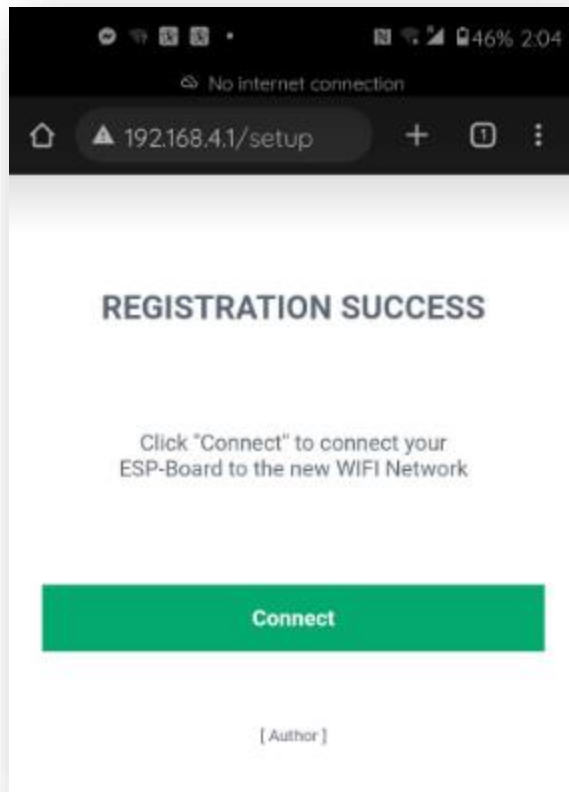
DEVICE NAME

Rolly

Register

[ Author ]

5. After clicking the register button, the confirmation page will load, and to finalize the process just click “**Connect**” this will reset your device and your device will attempt to connect to the HOME WIFI network you registered, if all credentials are correct this will connect your device without any error.



Note. After clicking Connect, it will load an error page, since this will reset the device and the page will not be available, this is normal.

6. Wait for a minute or two, this will connect your device to your home WIFI Network

LEAVE YOUR MOBILE NOW AND GO BACK TO YOUR COMPUTER/LAPTOP

7. To test the new ESP device, open the Google Chrome browser  
IN YOUR COMPUTER/LAPTOP  
and enter <http://<device-name>/> a page will load with  
details on how to control the newly configured ESP device

Note. make sure you replace <device-name> with  
the device name you registered

like for example I registered “rolly” so in the browser I will just  
type **rolly/** or **http://rolly/**

The screenshot shows a web browser interface for a device named 'rolly'. The address bar shows 'rolly/' with a 'Not secure' warning. The page title is 'SETTINGS AND CONFIGURATIONS'. It contains three tables of HTTP request syntaxes and a section for board pin assignments.

HTTP Request	Syntax
Base-Url	http://rolly/500291 dd0ff7
Base-Url	http://192.168.100.2/500291 dd0ff7
Get global data	/?req=stat
Get GPIO4 current pin status	/?req=stat&pin=4
Set GPIO4 pin to HIGH (mode=on,1,true would result same effect)	/?req=set&pin=4&mode=on
Set GPIO4 pin to LOW (mode=off,0,false would result same effect)	/?req=set&pin=4&mode=off
[Warning] This will erase currently saved Wifi SSID/PASS	/?req=eraserequest

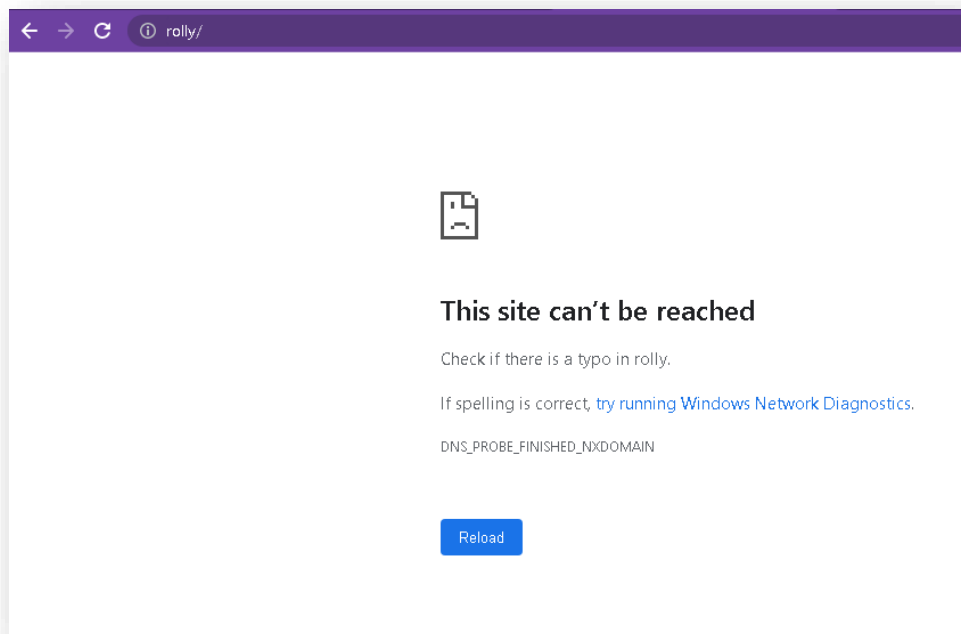
Note: "secret" can be obtain from Arduino IDE serial monitor, during device bootup.

OpenHAB [Options for Switch Items]	Syntax
stateExtension	/?req=stat&pin=0
commandExtension	/?req=set&pin=0&mode=%2\$s
stateTransformation	JSONPATH:\$.status

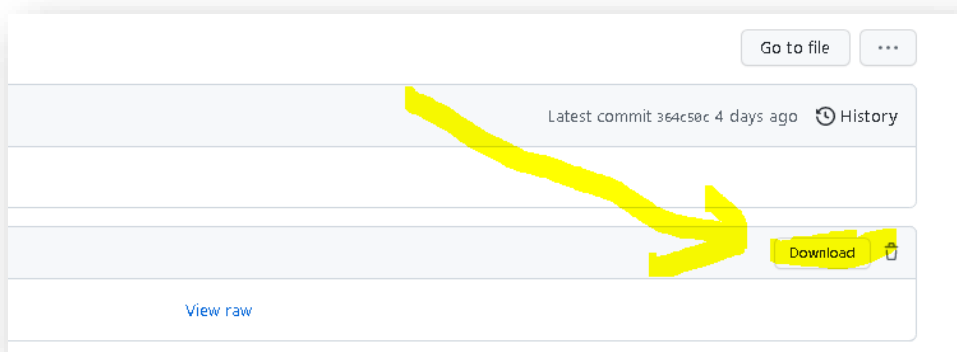
OpenHAB [Options for DHT Sensor Items]	Syntax
stateExtension	/?req=stat
stateTransformation	JSONPATH:\$.temp

Board Pin Assignments	Description
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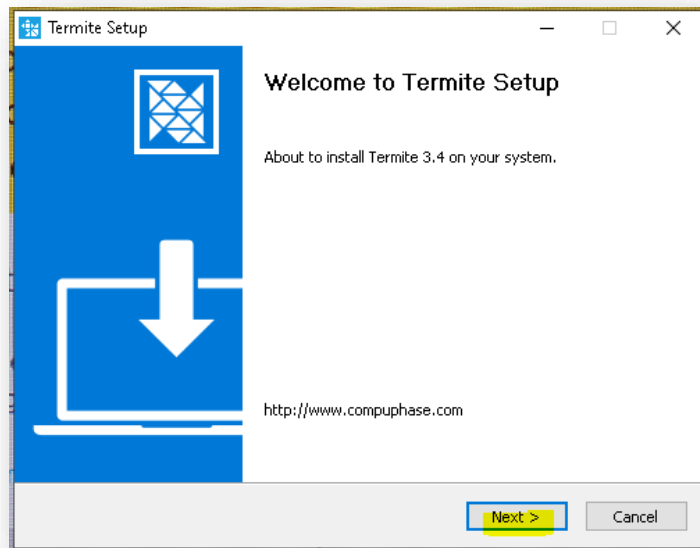
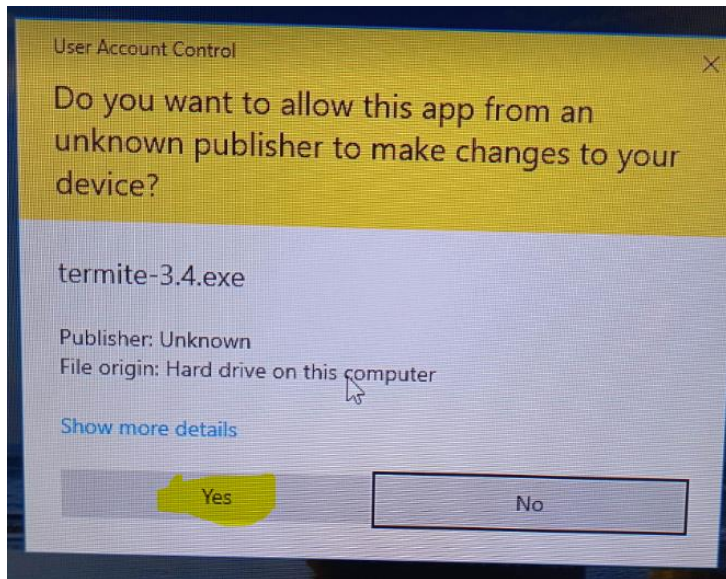
If the GREEN page above did not load using the device name  
and shows a similar error,

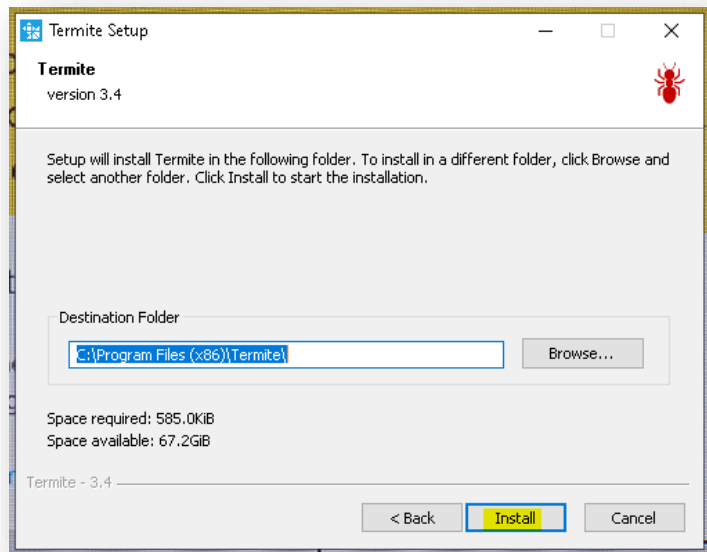
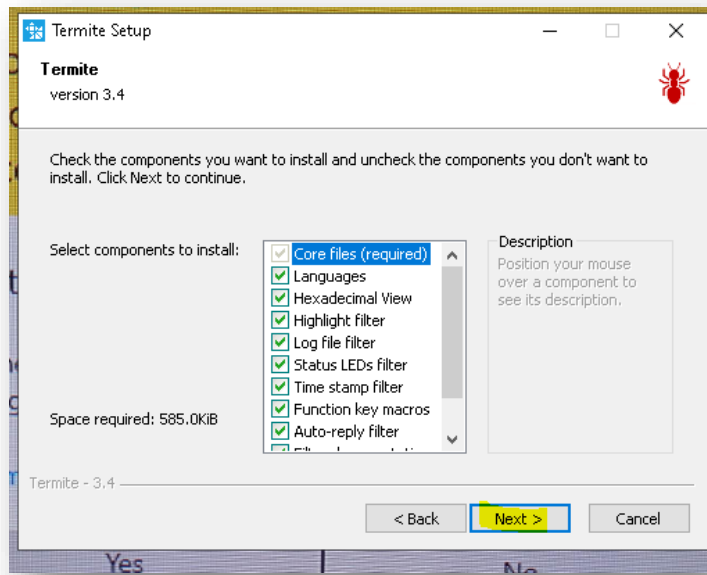


alternatively, we can use the IP Address, and to get the IP Address of the ESP device, we need a serial monitor  
go ahead and download the serial monitor on the below link  
<https://github.com/kamoteqv2/kamoteq-repo/blob/main/termite-3.4.zip>

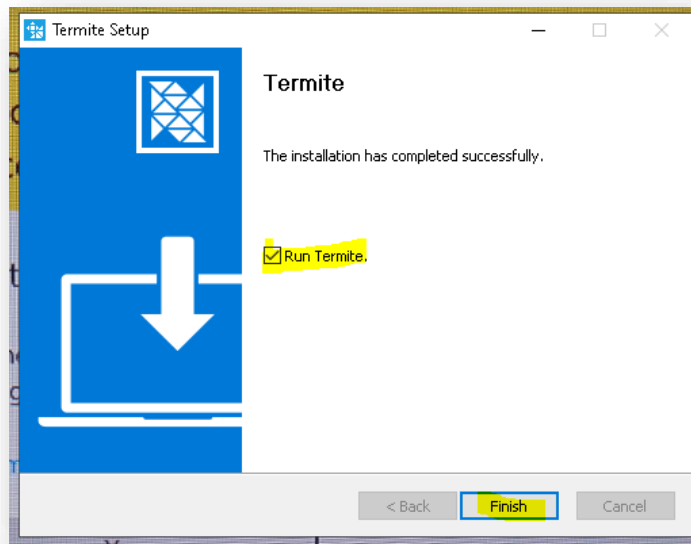


Extract and run the program  
If asked to allow the app, just click **Yes** and start the installation  
By clicking Next twice, install and finish buttons

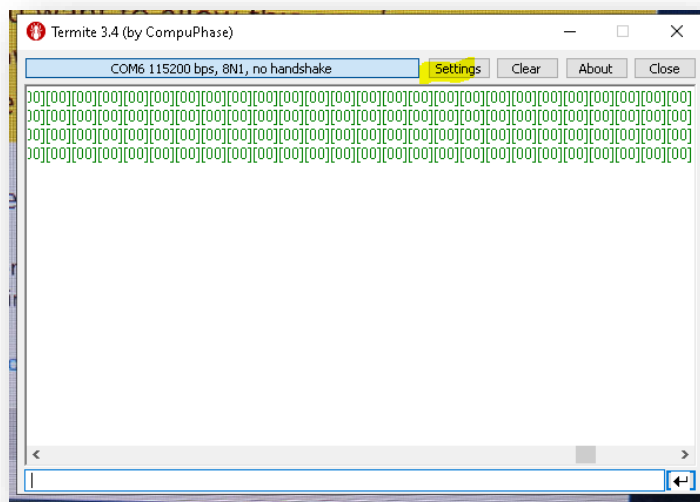




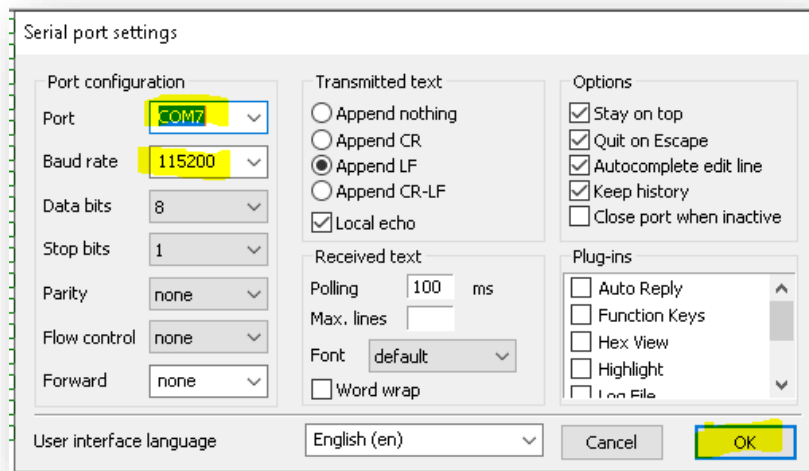




Make sure the check box “Run Termite” is checked  
A terminal window will appear, click **Settings**

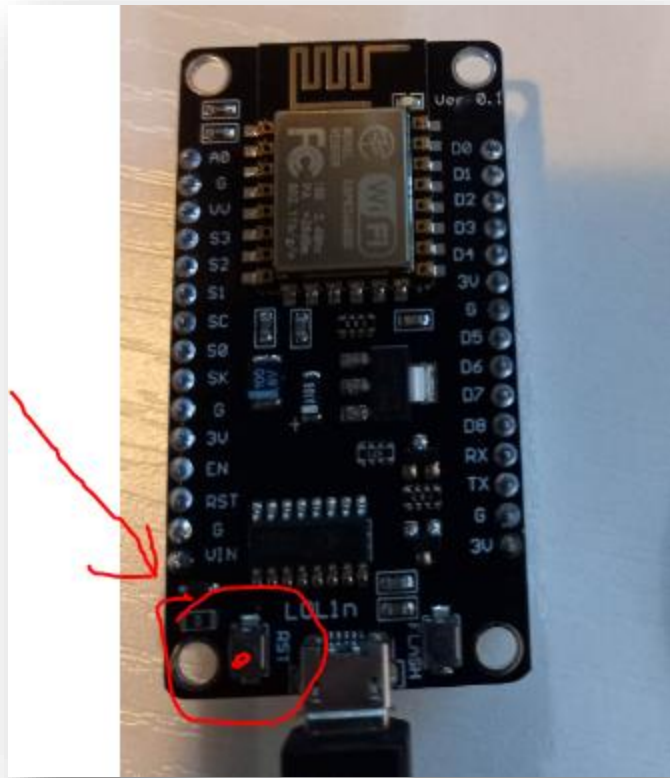


To select the Correct COM port number for  
the nodeMCU device and set  
the correct baud rate (should be **115200**)



Once everything is verified correct, go ahead and click **OK**

You will return back to the terminal window, and while looking  
At the terminal window,  
Press the **Reset(RST)** button on the nodeMCU

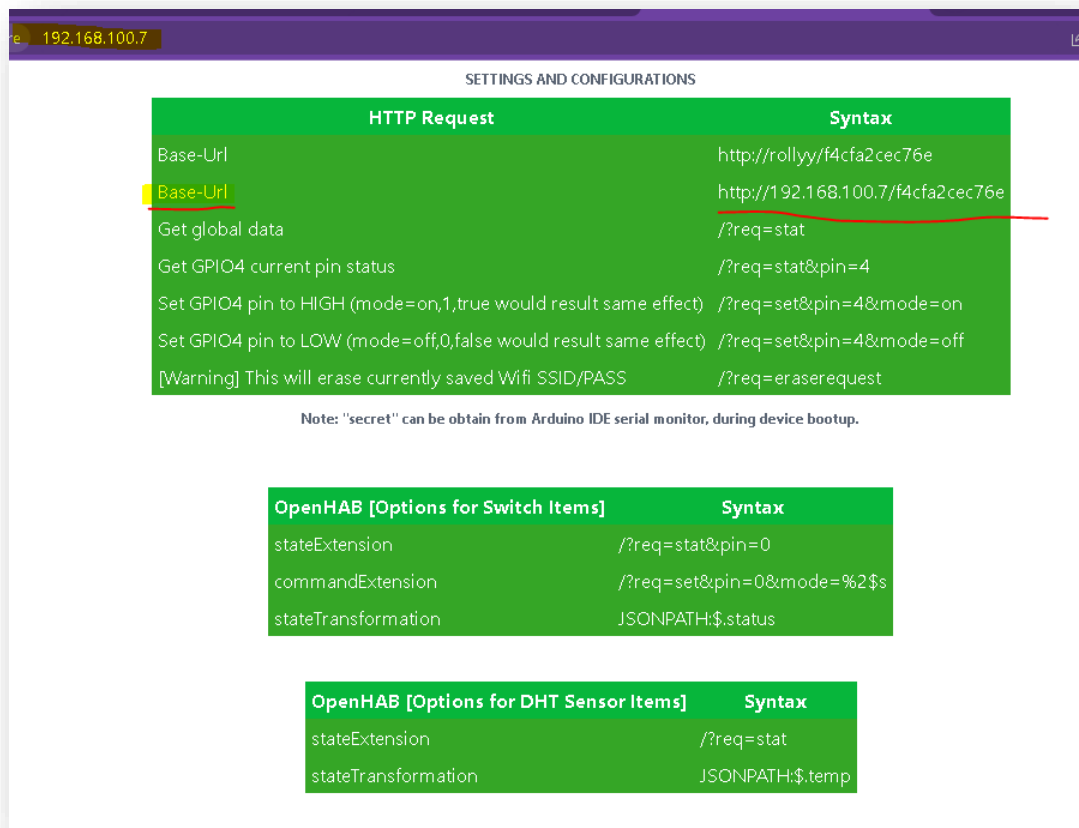


Look closely on the Termite terminal window and look  
For the IP ADDRESS

The below example got the IP address of 192.168.100.7

**Note.** chances are this will be different from yours, so make sure  
You follow the steps above to get the correct IP.





If you have the same above GREEN PAGE, then this completes the STEP 2 (WIFI Network Registration)

Congratulations!

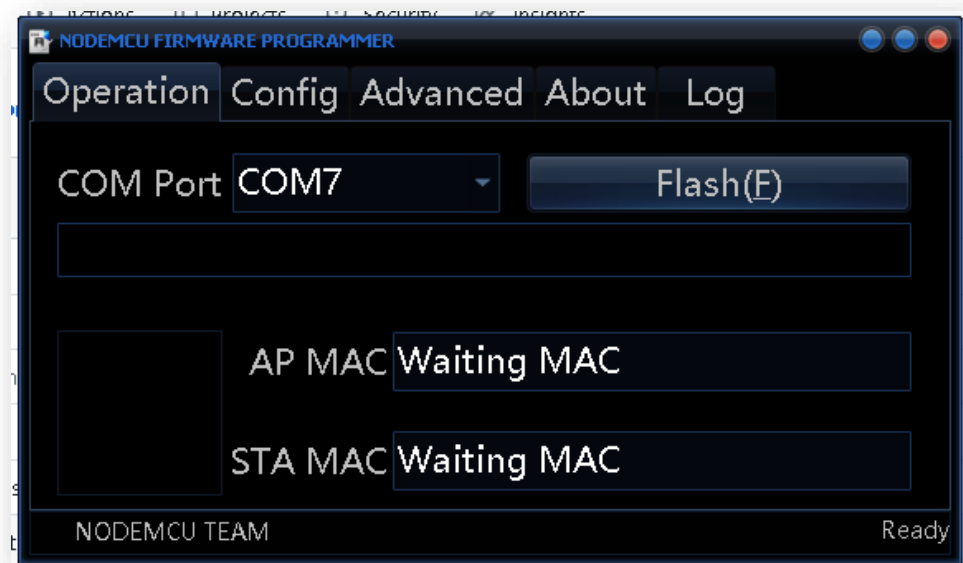
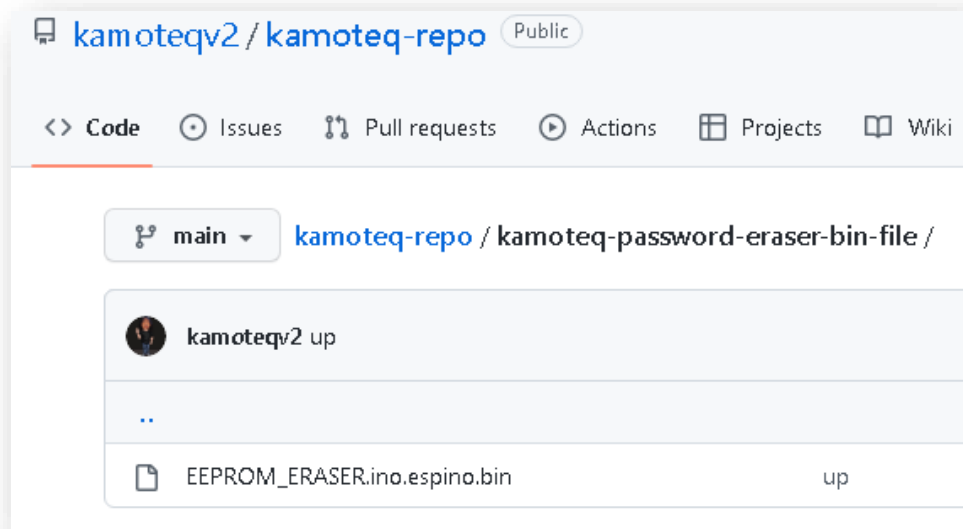
Proceed to STEP 3 (Java Installation and Configuration)

If in case you receive an error, just repeat the process,

and if you made a mistake with the password this must be erased, on [GitHub](#), there is a special bin file to erase the password.

<https://github.com/kamoteqv2/kamoteq-repo/tree/main/kamoteq-password-eraser-bin-file>

use the below bin file to flash out the old password in your ESP device using the nodeMCU flasher



End